AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. **(Currently Amended)** A storage system, comprising:

a storage unit;

~~an~~ a plurality of inner storage ~~unit~~ units~~, wherein the inner storage unit is~~ removeably positioned within the storage unit;

a plurality of tracking devices ~~device, wherein the tracking device monitors~~ monitoring the presence of ~~an item~~ a plurality of items associated with each of the inner storage ~~unit~~ units, monitors the temperature of the ~~item~~ items and generates tracking data, with a real-time clock tracking the timing of the events associated with the item associated with the tracking device at all times including temperature, location and access to the plurality of items by a user through an identification of the user; and

a processing device that reads the tracking data from the tracking device for recording of all information being tracked.

2. **(Currently Amended)** The storage system of claim 1, further comprising:

a data storage device that is electrically linked to the processing device; and

an access control system granting access and identifying access to the inner storage unit associated with the items,

wherein the tracking devices are formed in a matrix on each of the inner storage units tracking each of the items in each of the inner storage units, each of the tracking devices communicating with a network to store and receive information with regard to profiling the temperature, tracking the location of the items and access by users to the plurality of items,

the identification of the user being made through an identification number associated with the user.

3. **(Previously Presented)** The storage system of claim 2, wherein the tracking data is stored in the data storage device including historical and current information related to the items, with the tracking device being integrated into the construction of the inner storage unit and each tracking device having a unique identifier.

4. **(Previously Presented)** The storage system of claim 1, wherein in the inner storage unit is a rack and an access device integrated with the rack, and granting access and identifying access to the rack.

5. **(Original)** The storage system of claim 1, wherein the inner storage unit is a drawer storage rack.

6. **(Original)** The storage system of claim 1, wherein the inner storage unit is a drawer.

7. **(Previously Presented)** The storage system of claim 1, wherein the inner storage unit is a shelf, when the electrodes of the shelf are electrically connected to a network with the processing device, the status of the shelf, items is monitored.

8. **(Previously Presented)** The storage system of claim 1, wherein the inner storage unit is a tray, with the items being electronically linked to the tray that is electronically linked to a data storage device storing the tracking data from the items with respect to the tray, the data storage device being controlled by the processing device.

9. **(Original)** The storage system of claim 1, wherein the inner storage unit is a petri dish.

10. **(Original)** The storage system of claim 1, wherein the inner storage unit is a blood bag.

11. **(Original)** The storage system of claim 1, wherein the inner storage unit has a conductive portion that electrically links the tracking device to the processing device.

12. **(Previously Presented)** The storage system of claim 11, wherein the conductive portion is a hook, with the hook being placed on a top and a bottom surface of the inner storage container, the inner storage container being a pouch.

13. **(Original)** The storage system of claim 11, wherein the conductive portion is a phono jack.

14. **(Original)** The storage system of claim 11, wherein the conductive portion in an accordion cable.

15. **(Original)** The storage system of claim 11, wherein the conductive portion is connector.

16. **(Previously Presented)** A method of manufacturing a storage unit, comprising:

attaching a mechanical arm onto a surface of a storage unit; and

coupling a first tracking device onto the mechanical arm, with a real-time tracking of the timing of the events associated with the items interfaced by the mechanical arm.

17. **(Previously Presented)** The method according to claim 16, wherein the first tracking device tracks time and temperature at a plurality of discrete time intervals.

18. **(Previously Presented)** The method according to claim 16, wherein the mechanical arm is a restraint latch, and the first tracking device determining whether it is an appropriate time to record the temperature of an item with the mechanical arm, and then logging the temperature of the item in a database.

19. **(Original)** The method according to claim 16, further comprising attaching a second tracking device to a container.

20. **(Original)** The method according to claim 19, wherein the container is a petri dish.

21. **(Currently Amended)** A storage system, comprising:

A storage system, comprising:

means for storing a plurality of items;

a means for removably storing the plurality of items;

means for tracking the plurality of items, wherein the tracking means monitors the presence of at least an item associated with the storing means, monitors the temperature of the item and generates tracking data, with a real-time clock tracking the timing of the events associated with the item associated with the tracking device for a plurality of discrete time intervals and tracking the location and user access to the plurality of items, the user being identified electronically via an associated identification; and

means for processing, wherein the processing means reads the tracking data from the tracking means.